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formed and this is then added to the first image. In the subsequent series of operations performed in the process, the differentials are formed between each two sequential images, and these differentials are added to the preceding image in each case. In this way, the incremental deformations are thus added together, i.e., integrated. The integrated differentials yield the total deformation of the object.- -;

Page 3, change lines 24-25 to read as follows:

A4

- -Preferred Embodiments of the invention are described herein.- -;

Page 7, change lines 26-27 (last two lines) to read as follows:

A5

- -Preferred embodiments of the apparatus according to the invention are described below.

BRIEF DESCRIPTION OF THE DRAWINGS- -/and

A6

Page 8, between lines 6 and 7 insert- -DESCRIPTION OF THE PREFERRED EMBODIMENTS- -.

IN THE CLAIMS:

Amend Claims 4,6-8, 11, 12, 15-17 19 and 23-27 as follows:

A7

4. Process according to Claim 1, characterized in that phase images are determined from the images.

6. Process according to Claim 1, characterized in that the object (1) is irradiated with coherent radiation or coherent light, particularly laser light, or with partially coherent radiation or partially coherent light.

A8

7. Process according to Claim 1, characterized in that the object is irradiated by a laser diode.